

## Consolidated Breweries (Heineken) – Nigeria Equipment – Seitz Orion 100

**Reason for visit:** Consolidated Breweries asked Puresep to carry out an audit to assess the filter equipment condition, current process setup including potential optimization & feasibility of increasing filtration surface area and the implications to ancillary equipment.

### Issues highlighted:

- Complete process data sheet for both the current filter set up and the increased number of elements post expansion
- Highlighted poor condition on certain filter elements along with remedial works
- Incorrect and worn seals causing excessive leakage
- The two pressure gauge assemblies have blown causing bacterial issues
- Inability to alter dose rate on body feed equipment, leaving site overdosing reducing efficiencies.
- Evaluated all ancillary equipment including product pump, dosing pump and carbonation capacity

### The Solution

- Extended the existing pack by supplying additional fully reconditioned plates and frames to increase product flow-rate and increase capacity
- Additional lower runner supports were supplied to the filter to ensure the additional elements didn't cause any machine damage



- Supplied and fitted a complete replacement hydraulic seal kit. All seals replaced – plate, frame, profile and end plate seals and carried out a seal service to prevent future break-down.
- A replacement pump unit was fitted to allow different products different dose rates allowing longer more efficient run lengths.
- Flow indication for beer pump flow-rate, including flap & scale plate. Sanitary design from carbon steel
- Supplied two new pressure gauge assemblies with stainless steel interfaces

### The Result:

Consolidated Breweries were left with a fully working, efficient and optimised filter and production process where risk of costly breakdown, and thus brewery closure is significantly reduced.



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